Document:

Edit: May 3, 1993

Print Date: May 6, 1994	Enviromental Tests
Part Number: UVB-000257	Technician:
Unit S/N:	
occin from 13 metaded in this test. If	emprised of the items in the list below. Check the list and mark the item is present mark with a $\sqrt{}$. If the item is not included or enter an explanation in the 'special notes' below.
The items checked below must be for begin. Exceptions to this requirement	ully fabricated and ready for testing BEFORE this test can ent MUST be approved by QA.
DESCRIPTION	ARCS PART NO.
Solar Light Co. UV-Biometer	UVB-000258
Impulse, 6-pin pigtail connector	210-000023
Revisions Version 1.a. Aug.11, 199	94. Original Version
TESTS TO	O BE COMPLETED IN ORDER
1 Workmanship Inspection	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
2 Cable Installation	
3 Bench Test	하나 보는 이렇게 되는 것으로 보고 있는 것이 없는 것이 되는 것이 되었다. 그런 것이 없는 것이 되었다. 그런
4 Rain Test	4
5 Warm Test	
6 Cold Test	6
7 Final Steps	



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General Instructions: The tests here should be completed exactly as the instructions indicate.

- _ All test instructions should be followed exactly.
- _ If any item does not agree with the configuration the pertinent lines should be marked to that affect.
- If a line is preceded by an underline, e.g., $_$, that space should be checked (\checkmark) to signify that the line has been read and the unit agrees with the line.
- If a line does not apply to the system under test, then the underline will be filled in with an x, (x).
- When a data entry is required, a range of values is given to the right in parenthesis. If your measured data falls outside the specified range, STOP the test and check with the QA engineer.
- Important. If you, the tester find errors or obsolete information in this form, mark it carefully and alert QA of the problem. With YOUR help we can keep our test procedures current and accurate,

Equipment List The following equipment is needed for these tests. Be sure to enter all serial numbers and Calibration numbers on the test data sheet.

CALIBRATED INSTRUMENTS

Instrument	In Cal <u>√</u> (da	ate)
Digital Multimeter		
Onset Lite datalogger (To collect output voltages)		

SUPPLIES AND TOOLS

6 pigtail connector	
Heat shrink of different sizes to insulate the connections	
Self vulcaizing tape	
3M 33 black electrical tape	
Soldering iron & low temp. Electronis solder	
Wire strippers	
Ultra-violet light source(sunlight if hand held unit is unavailable)	
Heat Gun	

Travelle	ion The docu er tag completed manual for the cument filled	tely filled e UVB ins	in with date stallation ar	es and initials		much as poss	ible.	
UVE	manship Installation and tin 5mm g heat shrink	oth with no cratches. scratches serial numberation here: ws in place and overall the impuble leaving the jacket of each of ea	painted. abers clear re. (M e. Leveling quality. alse pigtail ag 8 - 12 in et off each of the wires	ly marked. ed/Hr.) g screws in pl connector. ches of cable of the 2 cable in each cable	from the so s.(Impulse	ensor. & UVB) using the fol	lowing col	or
code.	Shield	Black	Blue	Green	Yellow	Orange	Red	Brow
Impulse	Sh/Green	Red	Black	Black	Yellow	Black	Orange	Brow
Wrap leastWrap 3 Bench This test mean Setup Set th Expo Mean Conn	0.5" on each the connecti	on with seend. on with 31 t drains arest is as for the benche to 100my to UV ligge across ource and d measure urrent:	M-33 black ad basic ins llows: h. full scale. pins 2 & 3 look for a cethe curren	cing tape over celectrical tapes trument functions: S: Voltage:decrease in out draw of the 1.0 amps	ne, again ov tioning. heaters.	end of the heaverlaping the e	ends.	7 at

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UVB(ARCS P/N: UVB-000257-0) Environmental Tests

Tested By:	Completion Date:	
QA By:	Qa Date:	
Comments:		
Start the vertical rain at and inspect the unitInside dome is dryDownward rain for oneInside dome is drySet the multimeter to 10 Expose sensor to the UNIT CONTROL TO THE UNIT CONT	the rain chamber. Cables run outside full output. Be sure the unit is fully hour. Rotate several times. Inspect to the full scale. Volume to the course and check for an increase for a decrease in sensor output.	ease in sensor output.

Warm Test

This test will verify that all electronics and sensors will function proprely in warm conditions.

Test Setup The test equipment is arranged as follows:

Continue from the preceeding test. The unit is sealed and operational. The QA signoff has been completed.

Put the unit in the insulated box. The cables come outside the box so operation can be observed while the unit is under test.

Turn on the power supply.

Seal the box and let the system warm as quickly as possible to a maximum in the range of

60°C internal temp.

Leave the unit at this temperature for at least 6 hours or overnight. Watch carefully to be sure motor currents are within .8-1.0 A.

	를 가게 되었습니다. 내려가 하는		
maximum value.	Tests Perform these tests	on the unit while the	temperature is near it's
	neter to 100mv full scale.		
Expose sensor Remove the li	r to the UV light source a ght and check for a decre	nd check for an increase in sensor output.	ase in sensor output.
5 Cold Test			
This test will verify the Continue from	nat all electronics and send the preceding test.	sors will function pro	operly in cold conditions.
Put the unit in observed while	the cold box. The cables the unit is under test.	그는 그 하는 것 이 생물이 되는데.	so operation can be
Put in coolant.	ermistors to the case on the Seal the box and let the s		y as possible to
approximately			
Leave the unit	at this temperature for at eter to 100my full scale.	least 6 hours or over	night.
	to the UV light source an	d check for an incre	000
Remove the lie	the and check for a decrea	se in sensor output	ase in sensor output.
NOTE: COMPLETE T POINT.	THE QA SIGNOFF BELO	OW BEFORE PROC	EEDING BEYOND THIS
Tested By:	Completion Date:		
	Completion Date.		
QA By:	QA Date:		
Comments:			
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1	Final Steps
	Review this test procedure. Clearly mark any places where the form can be improved or is
-	inaccurate. We will routinely issue new procedures and, with your help, these forms will
	be accurate and up to date.
4/4	Type a new edited form for review.
	Make two copies of this document.
	One copy on file at BNL.
	One copy mailed to the mentor for this instrument. (See mentor mailing list).
	Prepare a priority (2-day) mail envelope addressed to:
	Tropical Western Pacific Project Office
90	Los Alamos National Laboratory
	Mail Stop J495
	Los Alamos, NM 87545
	Mail the completed, original test form to the project office.
	한 하 네는 이 사람들은 사람들이 하는 것이 되는 것이었다. 이상점 나를 하나 가능하다. 그런 사람들이 하는 것은 사람들이 되는 것이 되는 것이다. 그는 것이 없는 것은 것이 없는 것이다. 그는 것이